

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
1 July 2004 (01.07.2004)

PCT

(10) International Publication Number  
**WO 2004/054398 A1**

(51) International Patent Classification<sup>7</sup>: **A43B 7/28**,  
A43D 1/02

(21) International Application Number:  
PCT/CA2002/001927

(22) International Filing Date:  
16 December 2002 (16.12.2002)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **CLINIQUE ORTHOPEDIQUE D'ORTHESES-PROTHESES EST INC.** [CA/CA]; 470 Notre-Dame, Suite 100, Repentigny, Quebec J6A 2T5 (CA).

(72) Inventor; and  
(75) Inventor/Applicant (for US only): **BLEAU, Daniel** [CA/CA]; 470 Notre-Dame, Suite 200, Repentigny, Quebec J6A 2T5 (CA).

(74) Agent: **ROBIC**; 55 St.-Jacques Street, Montreal, Québec H2Y 3X2 (CA).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

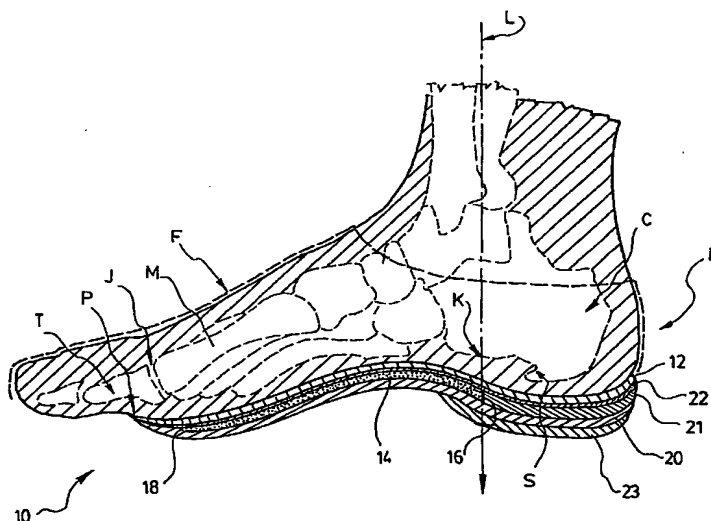
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC,

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(54) Title: **BIOMECHANICAL CUSTOM MADE FOOT ORTHOSIS AND METHOD FOR MAKING THE SAME**



(57) Abstract: A biomechanical custom made foot orthosis (10) and a method for making the same. The orthosis (10) has a thermoformed flexible top layer (12) made of a first moldable synthetic rubber material, and a thermoformed flexible reinforcement core layer (14) made of a moldable core material that is molded onto the top layer, (12). The core layer (14) has a posterior end (16) aligned with a mid anterior plantar prominence (K) of a calcaneus bone (C), and an anterior end (18) aligned near metatarsal-phalangeal joints (J) of the foot. The orthosis (10) also has a thermoformed flexible bottom layer (20) made of a second moldable synthetic rubber material that is molded onto the top layer (12) and the core layer (14). The core layer (14) is more rigid than the top and bottom layers (12, 20). The orthosis (10) corrects anatomic biomechanical deficiencies of the foot and ensuing body deficiencies.

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